

Author index to volume 68

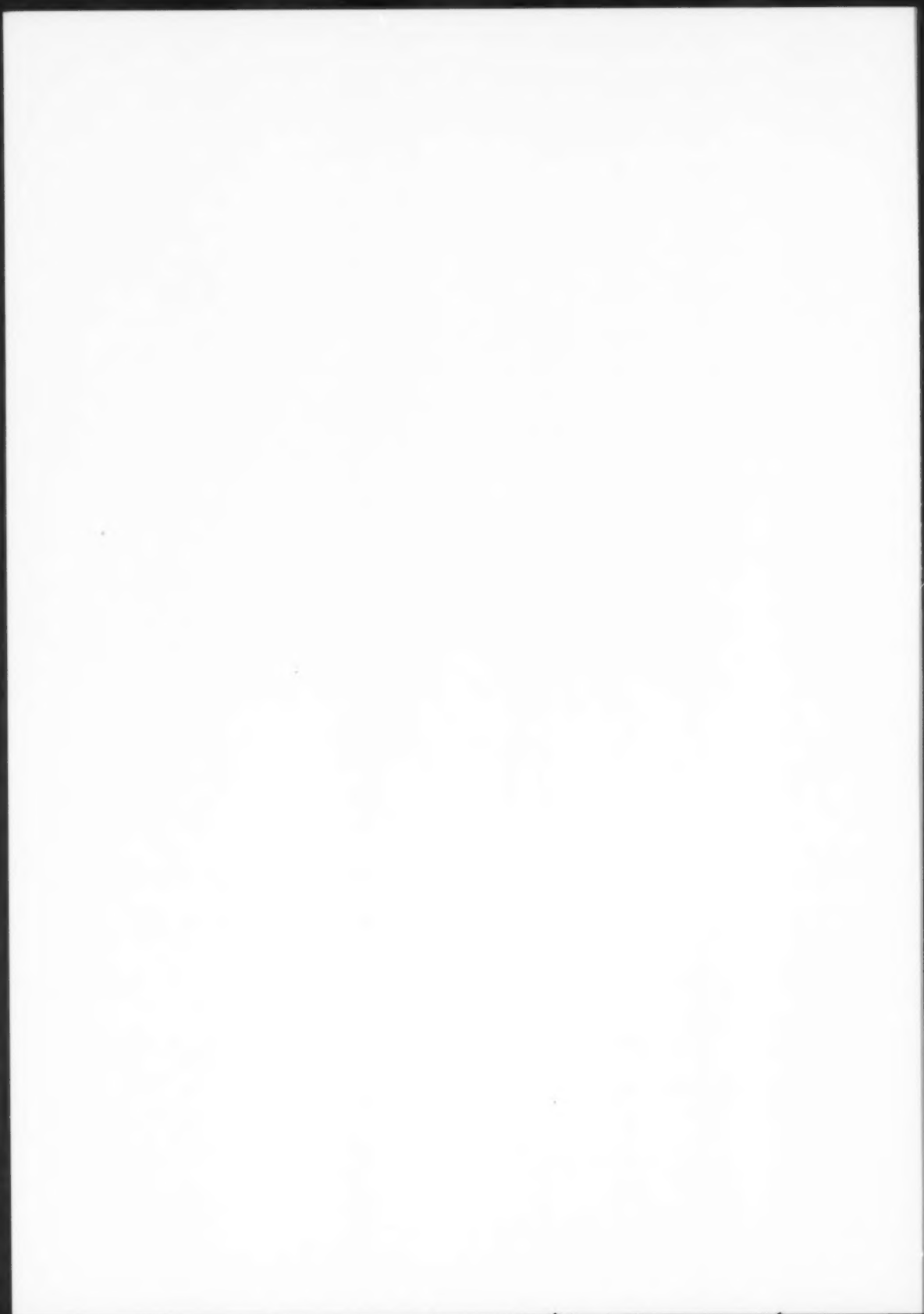
- Adler, S., S. Russek, J. Reimer, M. Fendorf, A. Stacy, Q. Huang, A. Santoro, J. Lynn, J. Baltisberger and U. Werner, Local structure and oxide-ion motion in defective perovskites 68 (1994) 193
- Ahmad, A., T.A. Wheat, J.D. Canaday, A.K. Kuriakose and A.G. McDonald, Processing and characterization of Na and (Na-K) beta-beta" alumina ceramics 68 (1994) 233
- Ainger, F.W., see S. Erdei 68 (1994) 295
- Alcock, C.B., see R. Doshi 68 (1994) 133
- Aotani, N., K. Iwamoto, K. Takada and S. Kondo, Synthesis and electrochemical properties of lithium ion conductive glass, $\text{Li}_3\text{PO}_4\text{-Li}_2\text{S-SiS}_2$ 68 (1994) 35
- Arul Raj, I., On the relationship between the solid state physicochemical characteristics and the heterogeneous electrocatalytic activity of lanthanum manganates for oxygen reduction in alkaline fuel cells 68 (1994) 41
- Baier, G., see Z. Lukacs 68 (1994) 93
- Baltisberger, J., see S. Adler 68 (1994) 193
- Barbosa, M.R., see M. Fritz 68 (1994) 339
- Behr, A., see V. Leute 68 (1994) 287
- Bludská, J., see J. Vondrák 68 (1994) 317
- Blumenfeld, A.L., A.S. Golub, G. Protsenko, Yu.N. Novikov, M. Casciola and U. Costantino, NMR investigation on molecular mobility of pyrazole and pyridazine intercalated in layered α -zirconium phosphate 68 (1994) 105
- Bohnke, O., see B. Vuillemin 68 (1994) 257
- Booth, C., see K. Viras 68 (1994) 49
- Brinkman, H.W., H. Kruidhof and A.J. Burggraaf, Mixed conducting yttrium-barium-cobalt-oxide for high oxygen permeation 68 (1994) 173
- Burggraaf, A.J., see H.W. Brinkman 68 (1994) 173
- Canaday, J.D., see A. Ahmad 68 (1994) 233
- Casciola, M., see A.L. Blumenfeld 68 (1994) 105
- Cho, N., S. Kikkawa, F. Kanamaru and A. Yoshiasa, Structural refinement of Ag_3SI by single crystal X-ray diffraction method 68 (1994) 57
- Costantino, U., see A.L. Blumenfeld 68 (1994) 105
- Dahn, J.R., see C.D.W. Jones 68 (1994) 65
- Den Hartog, H.W., see A.H. Verhoef 68 (1994) 305
- Dodo, M., see K. Ito 68 (1994) 117
- Doi, A., H. Hayakawa and H. Kamioka, Three steps of acoustic relaxation in $(\text{AgI})_x(\text{Ag}_4\text{P}_2\text{O}_7)_{1-x}$ glass melts 68 (1994) 81

- Doshi, R., Y. Shen and C.B. Alcock, Oxygen pumping characteristics of oxide ion electrolytes at low temperatures 68 (1994) 133
- Eguchi, M., I. Furusawa, T. Miura and T. Kishi, Lithium insertion characteristics of β - $\text{Cu}_2\text{V}_2\text{O}_7$ 68 (1994) 159
- Erdei, S. and F.W. Ainger, Preparation of stoichiometric γ'' - LiV_2O_5 bronze crystals from YVO_4 doped LiVO_3 flux for investigation of γ'' - γ' phase relation 68 (1994) 295
- Fendorf, M., see S. Adler 68 (1994) 193
- Feng, M. and J.B. Goodenough, Ionic conduction of $\text{Ba}_3\text{Y}_4\text{O}_9$ 68 (1994) 269
- Fritz, M., M.R. Barbosa, G. Staikov, W.J. Lorenz, M. Steinbrück and R. Knödler, Reply to comment by H. Näfe on "Electronic conductivity of Na- β'' -alumina ceramics at high temperatures" 68 (1994) 339
- Fuchs, B. and S. Kemmler-Sack, Synthesis of LiMnO_2 and LiFeO_2 in molten Li halides 68 (1994) 279
- Furusawa, I., see M. Eguchi 68 (1994) 159
- Golub, A.S., see A.L. Blumenfeld 68 (1994) 105
- Goodenough, J.B., see M. Feng 68 (1994) 269
- Guth, U., see P. Shuk 68 (1994) 177
- Hayakawa, H., see A. Doi 68 (1994) 81
- Holc, J., see M. Hrovat 68 (1994) 99
- Holc, J., Reaction between ZrO_2 8% Y_2O_3 thick film solid electrolyte and alumina substrate 68 (1994) 331
- Hrovat, M., J. Holc and D. Kolar, Thick film ruthenium oxide/yttria-stabilized zirconia-based cathode material for solid oxide fuel cells 68 (1994) 99
- Huang, Q., see S. Adler 68 (1994) 193
- Hünting, C., see V. Leute 68 (1994) 287
- Ikeda, H., see H. Ohno 68 (1994) 227
- Ito, K., M. Dodo and H. Ohno, Crystallization of inorganic salts in poly(propylene oxide) oligomers by heating 68 (1994) 117
- Ito, K., see H. Ohno 68 (1994) 227
- Iwamoto, K., see N. Aotani 68 (1994) 35
- Jasienska, S., see J. Kusinski 68 (1994) 185
- Jones, C.D.W., E. Rossen and J.R. Dahn, Structure and electrochemistry of $\text{Li}_x\text{Cr}_y\text{Co}_{1-y}\text{O}_2$ 68 (1994) 65
- Julien, C. and G.A. Nazri, Transport properties of lithium-intercalated MoO_3 68 (1994) 111
- Julien, C. and A. Khelifa, Lithium intercalation studies of $\text{Li}_x\text{CF}_{1.13}$ 68 (1994) 325
- Kamioka, H., see A. Doi 68 (1994) 81
- Kanamaru, F., see N. Cho 68 (1994) 57
- Kelder, E.M., O.C.J. Nijs and J. Schoonman, Low-temperature synthesis of thin films of YSZ and BaCeO_3 using electrostatic spray pyrolysis (ESP) 68 (1994) 5
- Kemmler-Sack, S., see B. Fuchs 68 (1994) 279
- Khelifa, A., see C. Julien 68 (1994) 325
- Kikkawa, S., see N. Cho 68 (1994) 57
- Kishi, T., see M. Eguchi 68 (1994) 159

- Knödler, R., see M. Fritz 68 (1994) 339
- Kolar, D., see M. Hrovat 68 (1994) 99
- Kondo, S., see N. Aotani 68 (1994) 35
- Korobov, A., Reactivity of solids: two-dimensional approach to formal representation 68 (1994) 221
- Kruidhof, H., see H.W. Brinkman 68 (1994) 173
- Kulkarni, A.R., see R.D.A. Paulmer 68 (1994) 243
- Kumar, A. and K. Shahi, The conduction characteristics of CsCl-Al₂O₃ composites 68 (1994) 71
- Kuo, C.K., see Y.M. Yan 68 (1994) 85
- Kuriakose, A.K., see A. Ahmad 68 (1994) 233
- Kusinski, J., S. Jasienska and C. Monty, Microstructural and microanalytical examinations of partially reduced doped wustites 68 (1994) 185
- Lee, J.-S. and H.-I. Yoo, Direct measurement of partial ionic conductivity of Co_{1-x}O via impedance spectroscopy combined with dc relaxation 68 (1994) 139
- Leute, V., A. Behr, C. Hünting and H.M. Schmidtke, Phase diagram and diffusion properties of the quasibinary system (Sn,Pb)S 68 (1994) 287
- Lorenz, W.J., see Z. Lukacs 68 (1994) 93
- Lorenz, W.J., see M. Fritz 68 (1994) 339
- Lukacs, Z., M. Sinz, G. Staikov, W.J. Lorenz, G. Baier and A. Vogel, Electrochemical investigations of a carbon monoxide-oxygen sensor 68 (1994) 93
- Lundén, A., Paddle-wheel versus percolation model, revisited 68 (1994) 77
- Lynn, J., see S. Adler 68 (1994) 193
- McDonald, A.G., see A. Ahmad 68 (1994) 233
- Meyer, W.H., see R.-R. Rietz 68 (1994) 151
- Miura, T., see M. Eguchi 68 (1994) 159
- Monty, C., see J. Kusinski 68 (1994) 185
- Näfe, H., Conclusions on the electronic conductivity of Na-β-alumina from the behaviour of a potentiometric CO₂ sensor comprising Na-β-alumina as electrolyte 68 (1994) 249
- Näfe, H., Comment on "Electronic conductivity of Na-β"-alumina ceramics at high temperatures" by M. Fritz, M.R. Barbosa, G. Staikov, W.J. Lorenz, M. Steinbrück, R. Knödler 68 (1994) 335
- Nazri, G.A., see C. Julien 68 (1994) 111
- Nicholas, C.V., see K. Viras 68 (1994) 49
- Nicholson, P.S., see Y.M. Yan 68 (1994) 85
- Nijs, O.C.J., see E.M. Kelder 68 (1994) 5
- Novikov, Yu.N., see A.L. Blumenfeld 68 (1994) 105
- Ohno, H., see K. Ito 68 (1994) 117
- Ohno, H., H. Yoshida and Y. Ohtsuka, Effect of salt species on the electrochemical p-doping of poly(pyrrole) films in poly(ethylene oxide) oligomers 68 (1994) 125
- Ohno, H., K. Ito and H. Ikeda, Decreased solubility of alkali metal salts by heating in poly(ethylene oxide) oligomers 68 (1994) 227
- Ohtsuka, Y., see H. Ohno 68 (1994) 125
- Paulmer, R.D.A. and A.R. Kulkarni, Synthesis and conductivity behaviour of ternary PEO-PPG-NaClO₄ amorphous blends 68 (1994) 243

- Protsenko, G., see A.L. Blumenfeld 68 (1994) 105
- Reimer, J., see S. Adler 68 (1994) 193
- Rietz, R.-R., K. Schmidt-Rohr, W.H. Meyer, H.W. Spiess and G. Wegner, Anion dynamics and conductivity in glassy polyelectrolytes – a two-dimensional solid state NMR study 68 (1994) 151
- Rossen, E., see C.D.W. Jones 68 (1994) 65
- Russek, S., see S. Adler 68 (1994) 193
- Santoro, A., see S. Adler 68 (1994) 193
- Schmidtke, H.M., see V. Leute 68 (1994) 287
- Schmidt-Rohr, K., see R.-R. Rietz 68 (1994) 151
- Schoonman, J., see E.M. Kelder 68 (1994) 5
- Secco, E.A. and M.G. Usha, Cation conductivity in mixed sulfate-based compositions of Na_2SO_4 , Ag_2SO_4 , and Li_2SO_4 68 (1994) 213
- Shahi, K., see A. Kumar 68 (1994) 71
- Shen, Y., see R. Doshi 68 (1994) 133
- Shirota, Y., see Y. Takebe 68 (1994) 1
- Shuk, P., L. Tichonova and U. Guth, Materials for electrodes based on rare earth manganites 68 (1994) 177
- Sinz, M., see Z. Lukacs 68 (1994) 93
- Spiess, H.W., see R.-R. Rietz 68 (1994) 151
- Stacy, A., see S. Adler 68 (1994) 193
- Staikov, G., see Z. Lukacs 68 (1994) 93
- Staikov, G., see M. Fritz 68 (1994) 339
- Steinbrück, M., see M. Fritz 68 (1994) 339
- Takada, K., see N. Aotani 68 (1994) 35
- Takebe, Y. and Y. Shirota, Poly(tetrahydrofurfuryl acrylate) as a new host polymer for polymer-salt hybrid ionic conductors 68 (1994) 1
- Thatcher, J.H., see K. Viras 68 (1994) 49
- Tichonova, L., see P. Shuk 68 (1994) 177
- Tillement, O., Solid state ionics electrochemical devices 68 (1994) 9
- Usha, M.G., see E.A. Secco 68 (1994) 213
- Verhoef, A.H. and H.W. den Hartog, High-frequency dielectric properties of alkali and alkali-halide borate glasses 68 (1994) 305
- Viras, K., J.H. Thatcher, C.V. Nicholas and C. Booth, Polymer electrolytes formed from oxymethylene-linked poly(oxyethylene) and alkali metal perchlorates studied by Raman spectroscopy 68 (1994) 49
- Vogel, A., see Z. Lukacs 68 (1994) 93
- Vondrák, J. and J. Bludská, The role of water in hydrogen insertion into WO_3 68 (1994) 317
- Vuillemin, B. and O. Bohnke, Kinetics study and modelling of the electrochromic phenomenon in amorphous tungsten trioxide thin films in acid and lithium electrolytes 68 (1994) 257
- Wegner, G., see R.-R. Rietz 68 (1994) 151
- Werner, U., see S. Adler 68 (1994) 193
- Wheat, T.A., see A. Ahmad 68 (1994) 233

- Yan, Y.M., C.K. Kuo and P.S. Nicholson, Phase equilibrium calculations in the systems
(Na, Li)- β'' -Al₂O₃-O₂ and (Na, Li)- β'' -Al₂O₃-O₂-H₂O in relation to Na- β'' -Al₂O₃ sin-
gle-crystal-film growth 68 (1994) 85
- Yoo, H.-I., see J.-S. Lee 68 (1994) 139
- Yoshiasa, A., see N. Cho 68 (1994) 57
- Yoshida, H., see H. Ohno 68 (1994) 125





ELSEVIER

Solid State Ionics 68 (1991) 347,348

**SOLID
STATE
IONICS**

Subject Index to Volume 68

2-D solid state ^{13}C -NMR, 151

Acoustic relaxation, 81

Aerosol, 5

Alumina substrate, 331

Amorphous blends, 243

AMTEC device, 335, 339

Anion dynamics, 151

α -zirconium phosphate, 105

β -alumina

sodium, 249, 335, 339

β^+ -alumina

lithium, 85

sodium, 85, 233

Barium cerate, 5

Barium yttrium oxide, 269

Battery, 9

lithium, 65

Bismuth oxide, 133

Borate glasses, 305

Cathodes, 99

Cell voltage response, 249

Cerium oxide, 133

Charge layer, 71

Cluster model, 287

Complex impedance, 1

Composite solid electrolyte, 71

Copper oxide, 139

Cubic zirconia, 331

Dc relaxation, 139

Diffusion, 287

lithium, 111

Dirichlet domain, 221

Discharge mechanism, 325

D-LAM, 49

Doped lanthanum manganites, 177

Doped wustites, 185

Doping, 185

Electrical measurements, 99

Electrical properties, 331

Electrochemical cell, 93, 139

Electrochromic cell, 9

Electrochromism, 257

Electrode materials, 65

Electronic conductivity, 335, 339

ESR spectra, 159

Eutectic conductivity, 269

Film, 5, 85

Fluorine graphite, 325

Fuel cell, 9, 41

Heterogeneous doping, 71

High-frequency dielectric spectroscopy, 305

Hydrogen insertion, 317

Impedance spectroscopy, 93, 139

Insertion, 257

hydrogen, 317

Intercalation, 9, 105, 111, 159, 279, 325

Ion exchange, 279

Ionic conductivity, 71, 151, 243, 305

glass, 81

lithium, 1, 125, 213

silver, 213

sodium, 213

Kinetics, 257

Lanthanum manganates, 41

Lattice energy, 117

Lithium battery, 65, 111, 295

Lithium insertion, 159

Lithium manganese oxide, 279

Lithium oxide-vanadium oxide system, 295

Lithium phosphate, 35

Local, 193

Magnesium-wustites, 185

Manganese-wustites, 185

Microanalysis, 185

Microstructure, 185

Mixed cation conductivity, 213

Mixed conductor, 125, 173, 249

- Molybdenum trioxide, 111
Motion, 193
NMR, 105
Oligomer, 117, 227
Open-circuit potential, 159
Order-disorder transition, 57
Oxide, 193
Oxide intercalation compounds, 65
Oxygen permeation, 173
Oxygen pump, 133
Oxygen reduction, 41
Paddle-wheel model, 77
Particle size, 233
p-electron conductivity, 249
Percolation model, 77
Perovskites, 133, 193
Phase analysis, 173
Phase diagram, 287
Phase equilibria, 99
Physicochemical, 41
Planigon, 221
Plastic crystals, 77
Polarization effects, 93
Polyelectrolytes, 151
Poly-ethylene oxide (PEO), 125, 227, 243
Polymer, 1
Polymer electrolyte, 49
Polymer solubility, 227
Poly(oxyethylene) POE, 49
Poly(propylene oxide) PPO, 117, 243
Polypyrrole, 125
PPG, 243
PTHFA, 1
Pyrazole, 105
Pyridazine, 105
Raman spectroscopy, 49
Rare earth manganites, 177
Reactivity, 221
Reduction
 Cu versus V, 159
 Ruthenium oxide, 99
 Ruthenium oxide/ zirconium oxide composite, 99
Salt solubility, 117
Sensor, 9, 93
 CO₂, 249
Silver iodide, 9
Solid electrolyte, 35
Solid oxide fuel cells (SOFC), 99
Solid sodium ion electrolyte, 249
Solid state properties, 41
Solution casting method, 71
Spray-drying, 233
Spray pyrolysis, 5
Statistical distribution, 57
Structural properties, 305
Structure, 193
Sulfide glass, 35
Surface area, 233
Ternary polymer electrolytes, 243
TGA, 269
Thermodynamic factor, 287
Thermodynamics, 9, 85
Thick film, 99, 331
Thin film cell, 9
Titanium disulfide, 9
Transference number, 133
Tungsten trioxide, 257, 317
Universal dynamic response, 305
Vanadium bronzes, 295
Warburg impedance, 139
Yttrium-barium-cobalt-oxide, 173
Zirconium oxide, 5, 9

